

NETWORK APPLICATION PERFORMANCE MANAGEMENT

Revolutionising Network Application Performance Management

AppQoS is a revelation in delivering Application Performance Management (APM) and empowers enterprises to manage application performance over local, distributed and remote networks.

AppQoS is a passive solution that analyses the entire traffic of the monitored network segments delivering full-stream reassembly and application-level visibility with no host agents or network infrastructure overhead.

AppQoS delivers real-time, passive network session analysis for each and every network transaction providing invaluable application performance and health information over both local and remote (disparate) networks, making it a unique and compelling solution for distributed network environments.

The unmatched deployment and operational flexibility of AppQoS empowers enterprises in the delivery of application performance SLAs across all parts of applicable networked infrastructure.

AppQoS delivers the fastest and most scalable Network APM in the industry, supporting analysis at full line rates of over 10Gbps and over 1.5Mpps.

AppQoS features fully virtualised network interfaces which allow an enterprise to partitioned aggregated network data into a comprehensive profile of application performance and utilisation on a departmental basis.

AppQoS has a full Web 2.0 wizard-based user interface where graphs and dashboards are user definable and can be held privately or published to 3rd parties, as required.

Core Features

- Full line rates per interface of over 10Gbps and over 1.5Mpps
- Limitless interfaces per cluster
- Limitless appliances per cluster (Clustered appliances can be local and remote)



AppQoS provides a wealth of networked application performance data in an easy-to-use format

Deployment

- No agents required
- Minimal configuration with seamlessly network analysis
- integration
- Rapid Installation (15 minutes typical)
- End to End Correlation

Fully Distributed Architecture

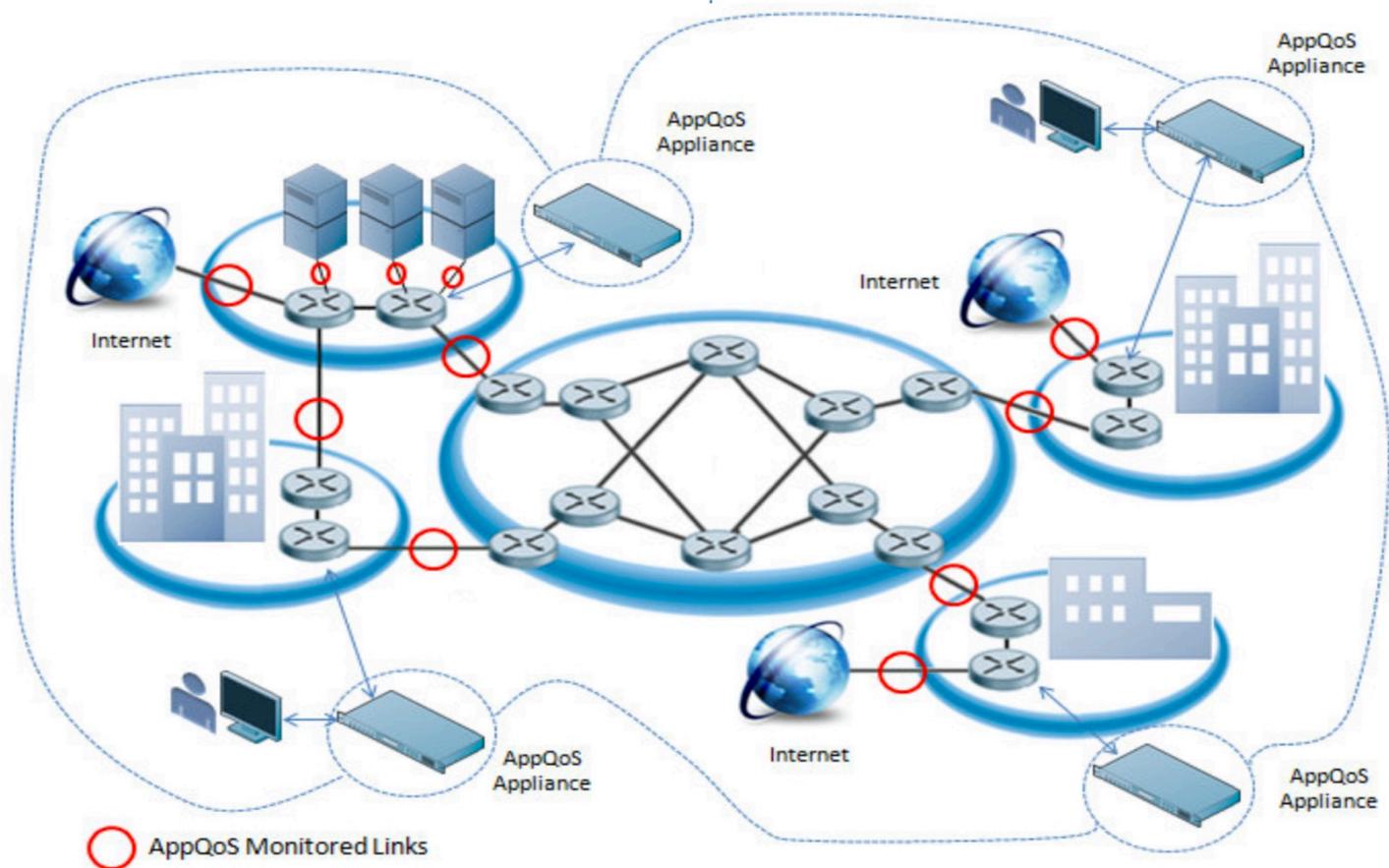
- Clustered appliances with a rich GUI providing aggregated reporting across the entire implementation

Virtual Interface Detectors (VIDs) & Data Partitioning / Aggregation

A key feature of AppQoS is the ability to filter or aggregate the data going through the physical network ports of the monitoring appliance. It achieves this through the concept of Virtual Interface Detectors (VIDs). These VID's can:

- Collect, filter and pre-analyse the network traffic.
- Share physical interfaces, so that "teamed" interfaces in a client's environment can be managed.
- Be assigned to separate interfaces or share interfaces.
- Be configured to filter traffic (IP Address Range, VLAN, Application etc.)

As a result, AppQoS allows physically disparate but associated traffic to be logically "pooled" and mixed network traffic to be logically partitioned i.e. by site, department or application etc.



Protocol Analysis Modules (PAMs)

VIDs provide real time Layer 3-4 protocol analysis for all applications. Real-time Layer 7 analysis is also provided for applications including HTTP, FTP, CIFS (MS Net BIOS) and VOIP by using Protocol Analysis Modules (PAMs).

Data Management

AppQoS uses multi layer (duplicated) data management techniques so that the stored data is already optimised for data retrieval query requirements. AppQoS provides the same high level of granularity whether reviewing a single hour of data or a whole month's data as old data is neither summarised or compressed.

Linked Appliances and Aggregated Monitoring

A unique deliverable of AppQoS data management is support for multiple "Linked" appliances. A system administrator can create a linked association with any other AppQoS appliance. Once this link is established any authorised user can access all the AppQoS analysed data associated with the Linked appliance group.

The local Data Manager will automatically initiate data requests from a Linked Data Manager, if required. This unique facility allows graphs and reports to include correlated data across any number of monitored interfaces within a network infrastructure so long as they are monitored by Linked appliances. For added flexibility an appliance can be linked in one or both directions to any other appliance. This approach ensures appliance dataflow is limited to highly compact query results, helping to achieve very low network transmission overhead.

For very heavy workloads associated with either large data collections or very high reporting requirements, an appliance can be linked to one or more Data Offload appliances. The data management and database workload load distribution is handled automatically by AppQoS. Only event (alert) data is transmitted over the network between Linked appliances except when a remote GUI data request is initiated.

Implementation Example

In the diagram above, this Enterprise class customer has four major sites, three of these have private (non MPLS) internet links and all share communications over an MPLS network. AppQoS's unique architecture allows all the relevant but disparate network links to be monitored and any APM data from any or all sites to be correlated as required. This correlated data can be viewed at any, or all, site locations due to the unique clustering capability of the AppQoS technology.